

Title (en)
Process for preparing calcium sulphate.

Title (de)
Verfahren zur Herstellung von Calciumsulfat.

Title (fr)
Procédé de préparation de sulfate de calcium.

Publication
EP 0577272 A1 19940105 (EN)

Application
EP 93304447 A 19930608

Priority
GB 9213998 A 19920701

Abstract (en)
A simple process for preparing acicular calcium sulphate dihydrate is provided in which a slurry of calcium carbonate containing 100 to 800 grams per litre calcium carbonate is mixed with a solution of sulphuric acid containing 80 to 500 grams per litre sulphuric acid in proportions which produce a calcium sulphate slurry having a pH from 0.5 to 1.5. The process can be used to neutralise by-product sulphuric acid from the preparation of titanium dioxide with crushed limestone. Preferably the calcium sulphate slurry is stirred after formation to reduce the level of unreacted carbonate. The calcium sulphate produced has an aspect ratio of at least 4:1 and has excellent properties for use in paper. The process enables the production of acicular calcium sulphate without employing special crystallisation procedures.

IPC 1-7
C01F 11/46

IPC 8 full level
C01F 11/46 (2006.01)

CPC (source: EP US)
C01F 11/46 (2013.01 - EP US); **C01P 2004/10** (2013.01 - EP US); **C01P 2004/20** (2013.01 - EP US); **C01P 2004/54** (2013.01 - EP US); **C01P 2004/61** (2013.01 - EP US); **Y10S 423/03** (2013.01 - EP US)

Citation (search report)
• [A] DE 1467292 B2 19701029
• [A] GB 1420558 A 19760107 - ISHIHARA MINING & CHEMICAL CO
• [A] CHEMICAL ABSTRACTS, vol. 113, no. 26, 24 December 1990, Columbus, Ohio, US; abstract no. 234087n, KAMEYAMA ET AL page 144 ;

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CN111484062A; ES2095184A1; CN104211104A; EP2192088A1; WO9623729A1

Designated contracting state (EPC)
BE DE ES FR IT NL SE

DOCDB simple family (publication)
EP 0577272 A1 19940105; **EP 0577272 B1 19970827**; CA 2099041 A1 19940102; CA 2099041 C 20030909; DE 69313373 D1 19971002; DE 69313373 T2 19980102; ES 2106968 T3 19971116; FI 104419 B 20000131; FI 933005 A0 19930630; FI 933005 A 19940102; GB 9213998 D0 19920812; JP 3393154 B2 20030407; JP H0692632 A 19940405; MY 110367 A 19980430; US 5376351 A 19941227; ZA 934232 B 19940112

DOCDB simple family (application)
EP 93304447 A 19930608; CA 2099041 A 19930623; DE 69313373 T 19930608; ES 93304447 T 19930608; FI 933005 A 19930630; GB 9213998 A 19920701; JP 16260793 A 19930630; MY PI19931254 A 19930628; US 8210593 A 19930628; ZA 934232 A 19930615